SCIENCE TODAY AND TOMORROW

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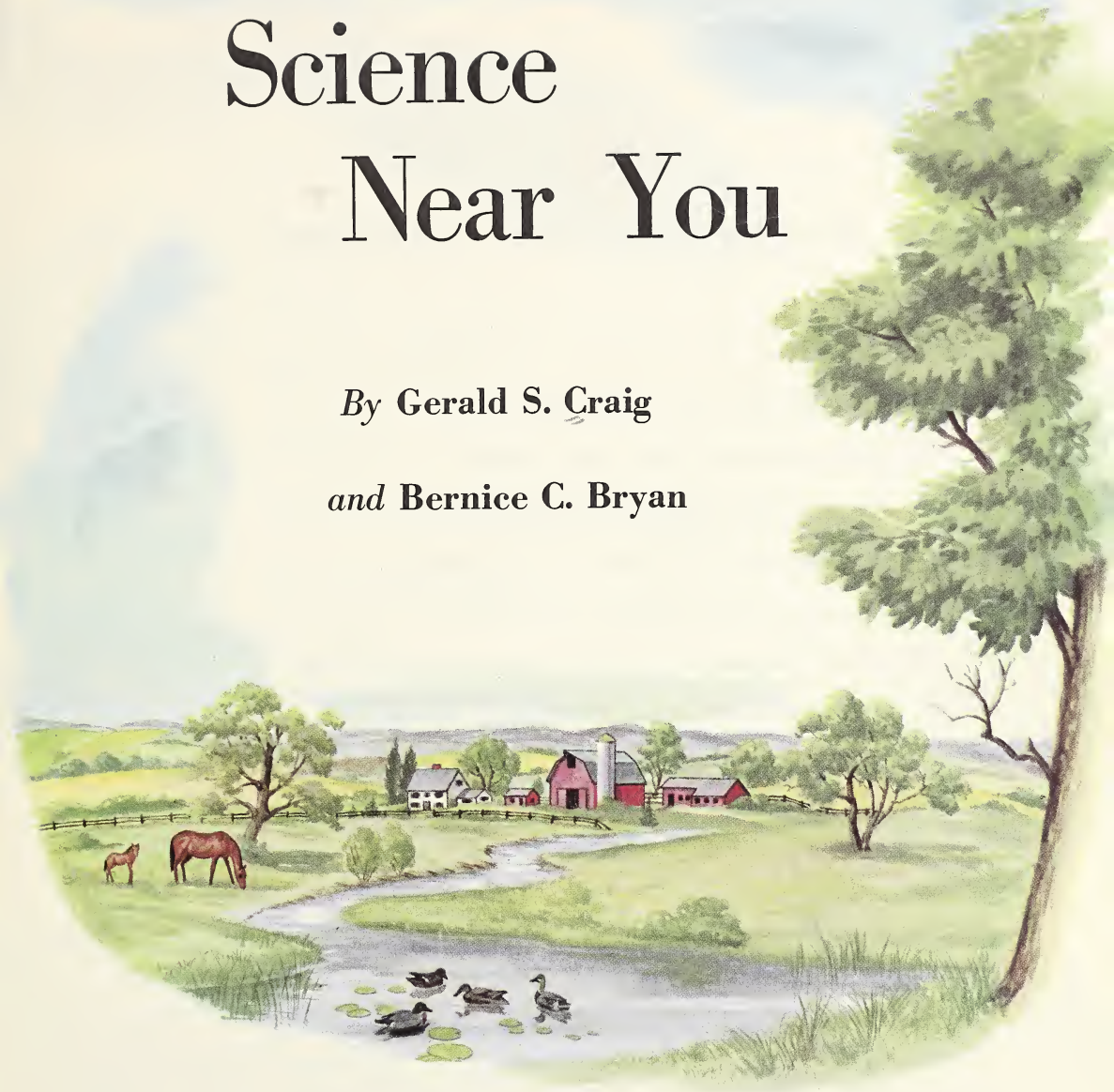
Science Near You

By **Gerald S. Craig**

and **Bernice C. Bryan**



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SCIENCE TODAY AND TOMORROW

Science and You (Primer) · CRAIG-BRYAN

Science Near You · CRAIG-BRYAN

Science Around You · CRAIG-DANIEL

Science Everywhere · CRAIG-LEMBACH

Discovering with Science · CRAIG-HURLEY

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A Teachers' Manual accompanies each book

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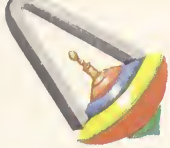

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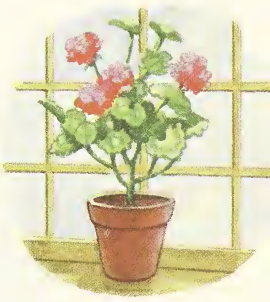

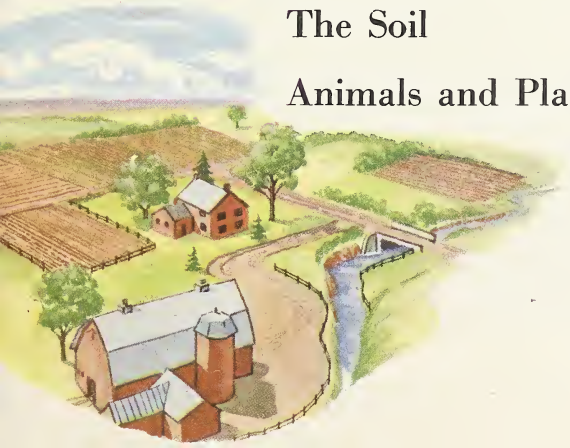

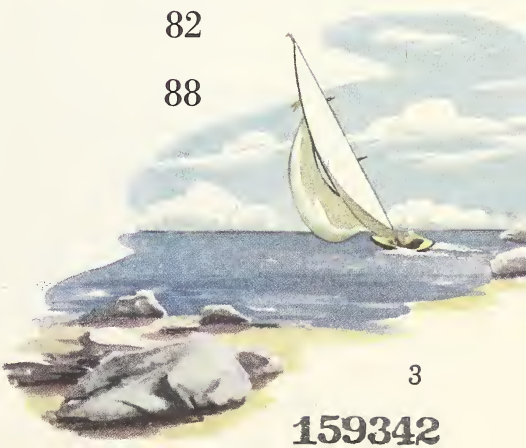

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Water

Water is in the clothes.
The clothes will get dry.

Now the clothes are dry.
Where did the water go ?

The red paint is dry.
It needs water.

Now the paint is wet.
Where will the water go ?

The dog will get wet.

Now the dog will get dry.
Some water will go into the air.

You Can Do This

Where did the water go ?

Where Will the Water Go?

Wet clothes can dry.
Wet paint can dry.
Many things can dry.
Water can go into the air.

Animal Homes

This animal makes a home in a tree.

These animals make a home, too.

You may see these animals.
How do they make homes?

You may see these animals too.
How do they make their homes?
You can look for animal homes.

These animals make their homes.
Where have you seen homes like these?

Which Animals May Have Homes Here?

Some animals make homes.
Where have you seen animal homes?

Young Animals

The young animals need care.
The mothers care for their young.

Where have you seen these young animals ?
How did the mother care for them ?

Do you have kittens ?
How does the mother care for them ?

The young ducks need care.
The mothers care for them.

These young animals need care, too.
How does the mother care for them ?

These are young animals.
There are no mothers here.
The young animals do not need care.

The mother of these animals is not here.
She does not take care of them.

These animals do not need their mothers.
Where have you seen these animals ?

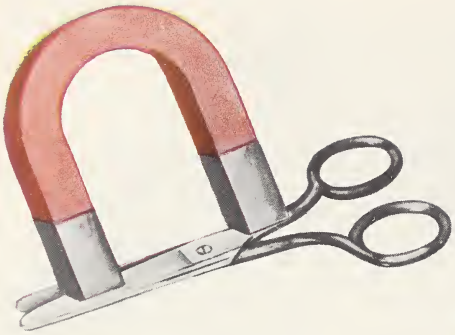
Which Young Animals Need Care?

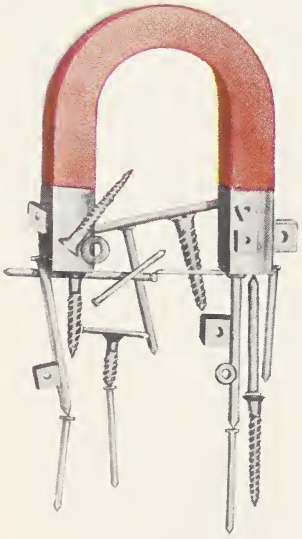
Some young animals need care.
Some young animals do not need care.

Magnets

John can work fast.
He has a magnet.
What can he do with the magnet?

What will your magnet attract ?





What does this magnet attract ?
Magnets attract many things.

Experiments with Magnets

The magnet can not attract Betty's hat.

"Look," said Betty.
"Magnets do not attract these things."

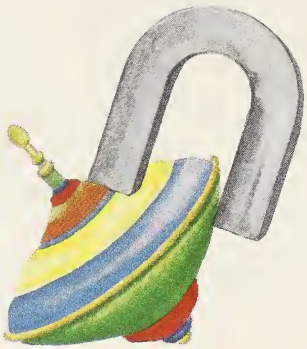
" See what my magnet can do," laughed Betty.

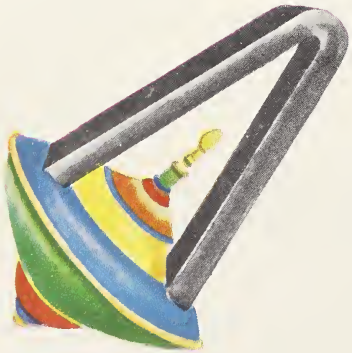
" My magnet can do something, too," said David.

"My magnet can do this," said John.

"My magnet attracts the can.
It makes the can move," said David.

Magnets





Here are some magnets.

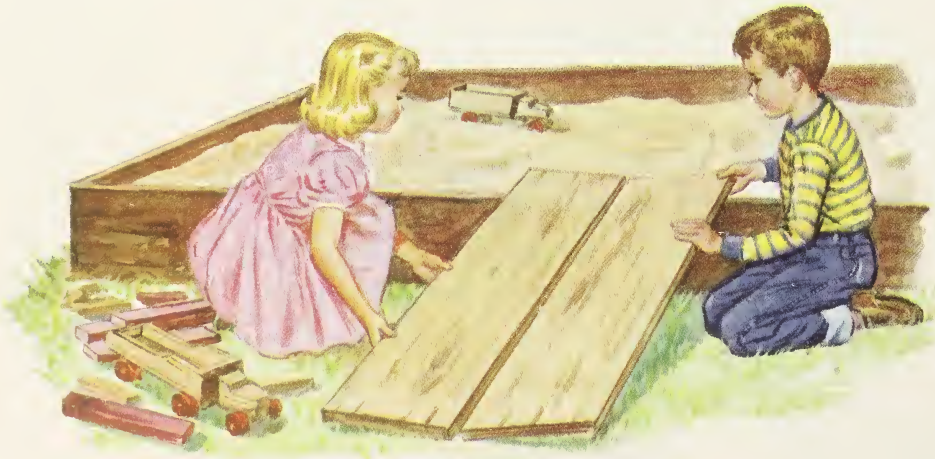
What Can Betty Do with Magnets?

Betty can do these experiments.
Show experiments you can do with magnets.

A Way to Go Up and Down

"This is a good way to go up.
It is an easy way," said David.

"This is too hard," said Ann.
"I know an easy way," said David.



David said, "This will help you.
Then your truck will go up.
It will go up an easy way."

" What fun," said Ann.
" See my truck go up."

" Now my truck runs up," said John.
" It will run down too.
This is an easy way."

The men have a ramp.
Things can move down a ramp.

These men have a ramp, too.
Ramps make it easy to move things up.

Find Easy Ways to Go Up and Down

Ramps make it easy to go up and down.
They make it easy to move things up and down.
Where have you seen ramps ?

How Water Changes Things

"Where is the sugar?" said Mary.
"I can not see it now."

"The sugar is there," said Betty.
"It is in the lemonade."

"The lemonade is good," said Betty.
"The sugar went into the lemonade.
The sugar made the lemonade good."

"See, Mother," said David.
"The sugar is not there."

"It went into the water," said Mother.
"Sugar dissolves in water."

David said, "Look, Mother.
See the salt go into the water."

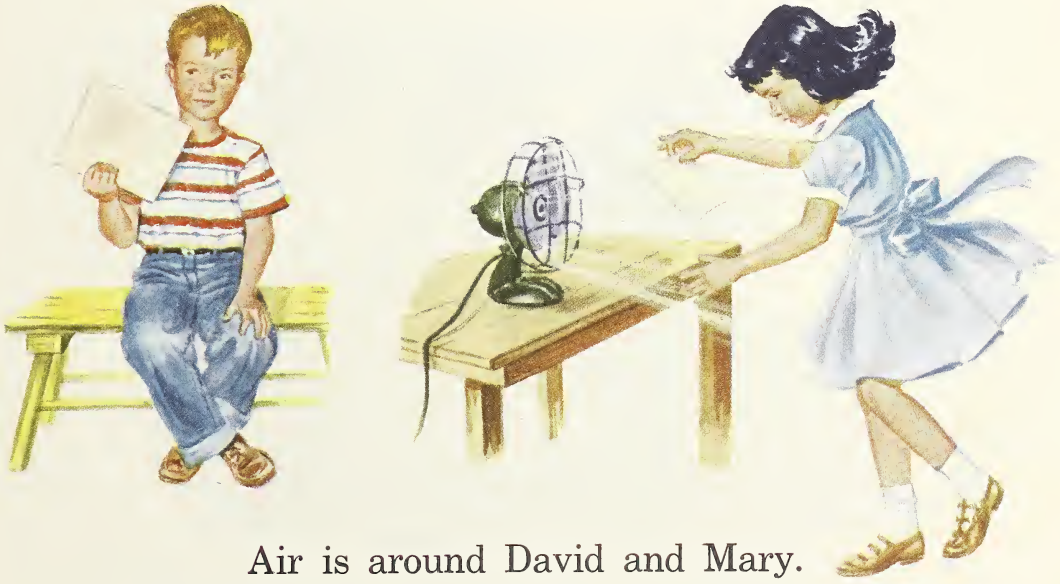
"Salt can dissolve, too," said Mother.

Experiments for You

Which things dissolve ?
Which thing does not dissolve ?
Some things dissolve in water.
Some things do not dissolve in water.

Air Around You

"Our boats go fast," said Mary.
"The air moves the boats," said Father.
"It makes the big boats move, too," said David.



Air is around David and Mary.
David can feel the air move.
Mary can feel the air move, too.

Betty's Experiment

"Is something in this glass?" said Betty.
"No," said the children.
"Yes, there is," said Betty.

"There is air in the glass.
I will show you," said Betty.

" Look at the cork," said Betty.
" I will make the cork go down."

" Why did the cork go down ? " said David.
"Air is in the glass," said Betty.
" The air in the glass made the cork go down."

Experiments with Air

"Is air in this box?" said Mary.
"You can find out," said Miss Mills.
"David can show you."

"Air is in the box," said David.
"I can show you.
Look, I can make it go out."

" See my experiment," said Mary.
" Look at the bubbles," said Betty.
" There are many, many bubbles."
" They are air bubbles," said Miss Mills.

David said, " Now the water can go out."
" Yes, and the air can go in," said Mary.
" Look at the big air bubbles."

You can put air in some things.
Show what you can do.

How Do You Know Air Is Here?

Air can move some things.
You can see the things move.
You can feel air move.
You can put it in some things.
Air is around you.

The Sky

" See the sky change, " said David.
" Now some of the sky is blue."

" Mother, see the colors in the sky.
The colors change fast," said David.

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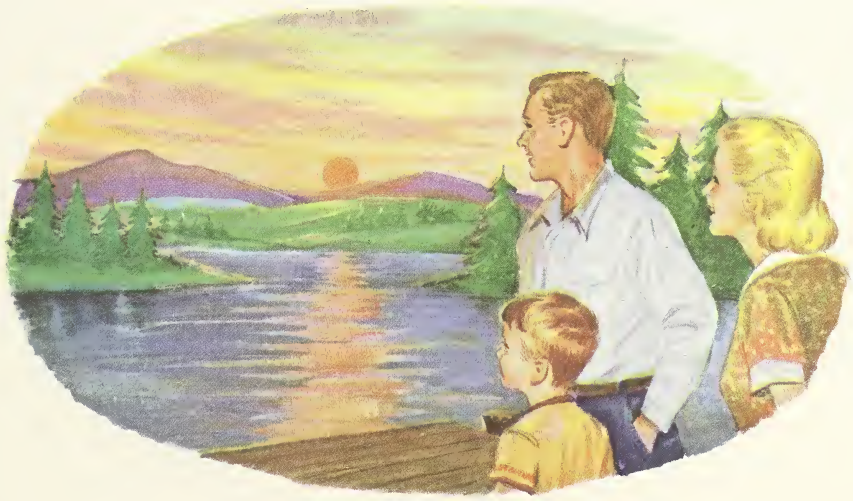
Some clouds are in the sky.
The sun is in the sky, too.

Now there are no clouds.
The sun is in the blue sky.

The moon is in the sky.
The sun is there, too.



David can see the sky change.
He can see some clouds.
He can not see the moon.

Now it is night.
The sun is not in the sky.
What do you see in the sky at night?

Here it is night.
The moon is in the sky.
There are no clouds.
The night sky changes, too.

What Changes in the Sky Do You See Here?

The sky changes.
The sky can change fast.
Look for clouds.
Look for the moon.
Look at the sky at night.
What changes do you see?

Rocks Near You

Here are many, many rocks.
Some of the rocks are big.
Some of the rocks are little.

"I have a soft rock," said Ann.
"Look, I can break it.
I can break it into little rocks.
You can break the soft rock, too."

"I can not break these rocks.
They are not soft," said Ann.
"They are hard, hard rocks."

"This rock feels rough," said David.
"This rock feels rough, too," said John.
"Many rocks are rough."

"Look at this rock," said John.
"It feels smooth."

"I know why the rocks are smooth," said David.
"Water and little rocks made them smooth."

What Kinds of Rocks Are Here?

There are many kinds of rocks.
Many rocks are big, and many are little.
Some are soft, and some are hard.
Some feel smooth, and some feel rough.
Where have you seen rocks near you?

Land Near You

John lives here.
David lives here.
Ann will live here, too.
She will have a new house.

This is John's home.
John can see big rocks.

John can see a big shovel.
The shovel can move big rocks.
Ann will live here.
She will have a new house.

John can see the land far away.
He can see the river too.
David's house is near the river.
It looks far, far away.

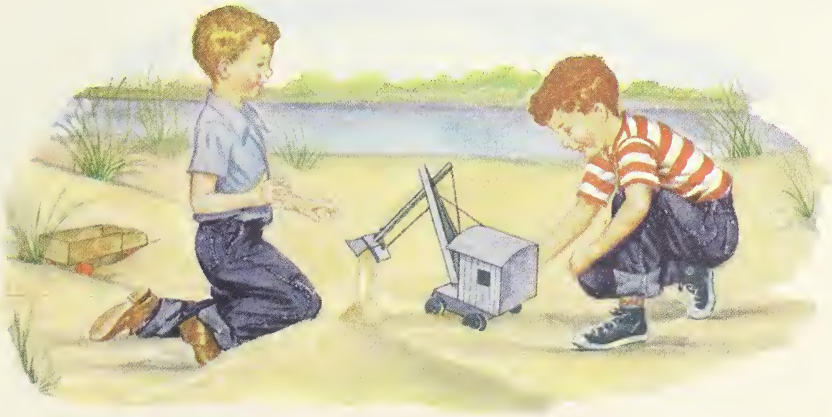
John walks down the big hill.
He wants to see David.
It is easy to go down the hill.

David lives here.
He lives near the river.

"This is my new shovel," said John.
"We can play in the sand."

"Now we can go," said Mother.
"Take your shovel, John."

David and John can play near the water.
They can make things in the sand.



David and John will make big hills.
They will make a river in the sand, too.

"Look," said John.
"I made some big hills.
It is fun to go up and down the hills."

"I made a river," said David.
"Now I will make my house near the river.
I like to make things in the sand."

John and David's Map

John and David work on their map.
The children help them.
Miss Mills helps them, too.

Find the hills on the map.
Find the river on the map.

You can make a map, too.
You can make a map of where you live.

The Land Up and Down

Some children walk up the hill.
Some children ride up the hill.
It is hard to go up the hill.

The children go down the hill.
It is easy to go down the hill.

How Does the Land Look Near You?

In some places there are many hills.
In some places there are no hills.
In some places there is water.
And in some places there are many rocks.

Plants in Many Places

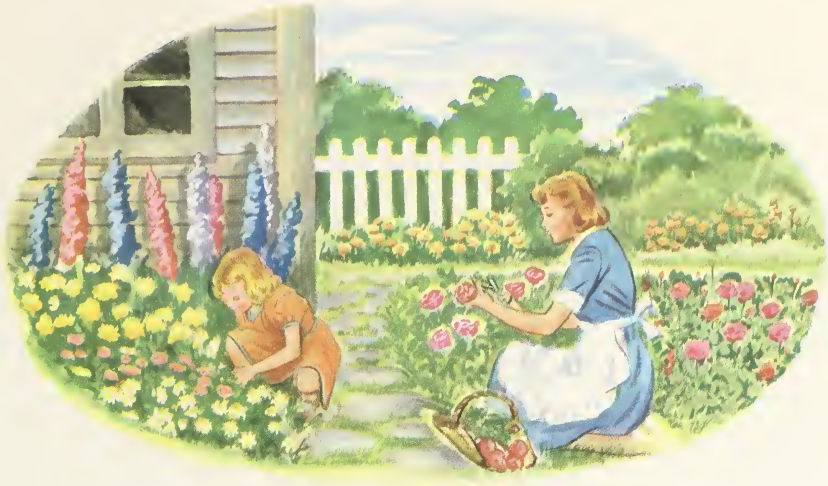
"I see many kinds of plants.
I see plants far away," said Mary.

"Some of them are big.
And some of them are little," said Ann.

"The trees are big plants," said Father.

The children see many plants here too.
Where do you see plants grow ?

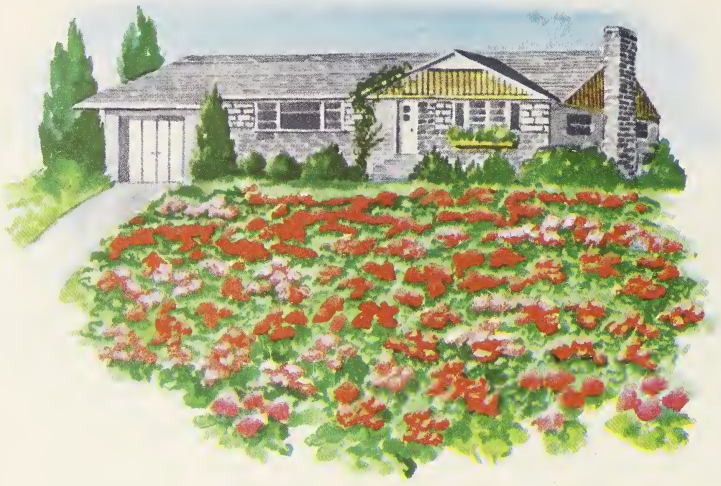
" These are little plants," said Ann.
" Many of them grow here."



Ann has some flowers.
Mother has some flowers, too.

Look for plants around your home.
Some of the plants may have flowers.

There are many kinds of plants.
They grow in many places.



These plants grow near the house.
They have flowers, too.
There are many kinds of plants.

Many plants grow here.
Some of these plants have flowers.

Where Do Plants Grow Near You?

Plants grow in these places.

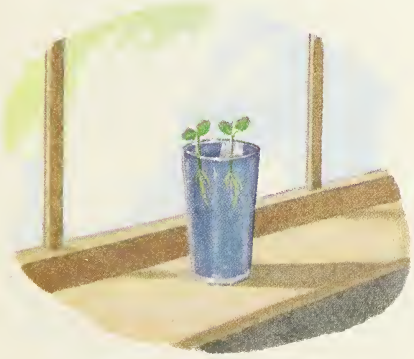
Plants grow here too.
Plants grow in many places.

How Plants Grow

These plants grow out of seeds.
The plants grow and grow.
The children have many plants.

Experiments with Plants

Ann wants to see some seeds grow.
The seeds need water and sunlight.



Ann's plants grow out of seeds.
The seeds have food for the plants.

You can do this experiment, too.

This is part of a plant.
This part of a plant can grow.
It has food and water.
It has sunlight too.

This is part of a plant.
This part of a plant can grow, too.
Why does it grow ?

The plants need the sunlight.
They are green in the sunlight.

Now the grass is yellow.
It did not have sunlight.

What Do Plants Need?

Here are many plants.
The soil has food for the plants.
The plants need food to grow.
They need water and sunlight too.

How Do These Plants Change?

These plants change and change.
They grow big and have flowers.
They grow big and have seeds too.
What changes in plants have you seen ?

The Soil

The water runs fast.
The water runs down the hill.
It will wash soil down the hill.

"The rocks will hold the soil," said John.
"The soil will not wash away."

"This grass seed will grow fast," said Ann.
"Grass will hold the soil, too."

"The rocks hold the soil," said John.
"The grass holds it, too," said Ann.
"Now our soil can not wash away."
"We need our soil," said Miss Mills.

Grass Plants Hold Soil

A grass plant
looks like this.

It looks like this
in the soil.

Many grass plants
look like this.

They look like this
in the soil.

Grass plants grow fast.
Why can they hold the soil ?

Blow, blow, blow.
The wind blows the soil.
The wind blows the soil around.

The men put many plants in the soil.
The plants will hold the soil.
Then the wind can not blow the soil.
And the water can not wash it away.

What Holds Soil Near Your Home?

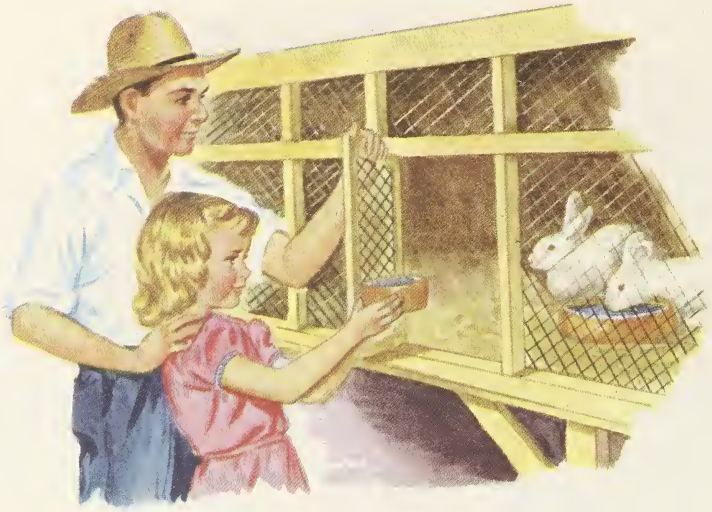
Look for places like these.

Plants and rocks hold soil.
Then wind can not blow the soil.
And water can not wash it away.

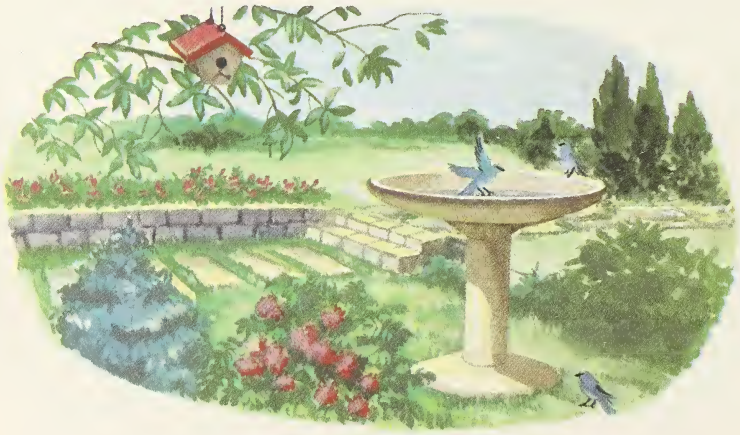
David and Patsy went for the cows.
Now Father will care for the cows.

The cows need food and water.
Father cares for the cows in many ways.

David cares for Patsy.
He cares for Patsy in many ways.
Do you have a dog ?
How do you help care for your dog ?



These animals have a good home.
Ann helps care for them.
How do you help care for animals?



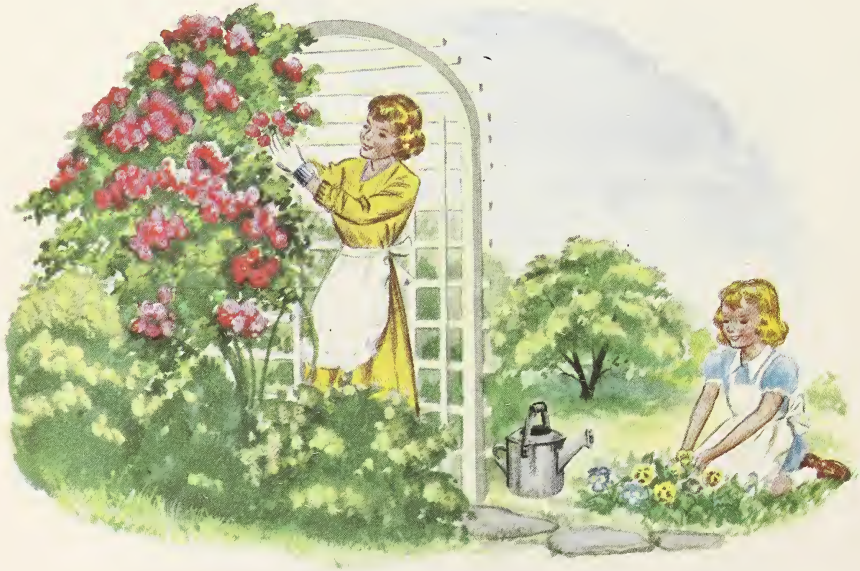
You can help some animals.
Put out water for them.
Put out some food for them, too.
Make a house for some of them.

People help animals here too.
People grow many plants.
Some animals can find homes here.

Some people make a pond for animals.
Many plants grow around the pond.
Then some animals go there to live.
Some of them live around the pond.
Some of them live in the pond.

Care of Plants

How does Ann care for the plant ?



Ann and Mother care for the plants.
How do you help care for plants ?

These trees need water.
They need good care.

The men know what these trees need.
They take good care of the trees.
Men care for trees in many ways.

Many plants grow on these hills.
The plants have many flowers.
These people do not take them.
They want them to grow and grow.

How Do People Care for These Animals and Plants?

People need to care for animals.
People need to care for plants too.
How do you care for animals and plants?

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